

ABSTRACT

An apparatus and method for improving signal reception in a signal receiver is disclosed. The apparatus comprises at least two first receiver chips, a digital combiner circuit and a single third receiver chip. At least two antennae are used to receive at least two signals, the signals are passed through front end section and equalizer of the first receiver chips, wherein the quality of the signals is evaluated. The signals are combined intelligently in the digital combiner circuit based on the quality of each signal. The combined result is fed into the decoder located in the back-end section of the single third receiver chip.